# DEPARTMENT OF THE ARMY Wilmington District, Corps of Engineers Post Office Box 1890 Wilmington, North Carolina 28402-1890

Action ID No. 200331135

August 18, 2003

#### **PUBLIC NOTICE**

The North Carolina Department of Transportation, ATTN: Dr. Gregory J. Thorpe, Director, Project Development and Environmental Analysis Branch, 1548 Mail Service Center, Raleigh, North Carolina 27699-1548 has applied for a Department of the Army (DA) permit TO DISCHARGE DREDGED OR FILL MATERIAL INTO .21 ACRES OF WETLAND AND 1361 LINEAR FEET OF STREAM CHANNEL IN THE WATERS AND ADJACENT WETLANDS OF ISLAND CREEK, CUCUMBER CREEK, STONY RUN CREEK, BIG BEAR CREEK AND UNNAMED TRIBUTARIES IN ADDITION TO AN UNNAMED TRIBUTARY OF BIG MEADOW CREEK TO FACILITATE THE WIDENING OF APPROXIMATELY 9.4 MILES OF NC HIGHWAY 24/27 FROM SR 1142 (BROWNS HILL ROAD) TO SR 1253 (SAM ROAD) AT AND EAST OF LOCUST, STANLY COUNTY, NORTH CAROLINA (TIP NO. R-0967 CA & CB, STATE PROJECT NO. 6.689002T).

The following description of the work is taken from data provided by the applicant and from observations made during an onsite visit by a representative of the Corps of Engineers. Plans submitted with the application show the proposed construction of a five-lane facility with curb and gutter through the Town of Locust to just east of Island Creek and a four-lane road with a 46-foot grassed median from Island Creek to the western city limits of Albemarle near the intersection with SR 1963 (Oakboro Road). The proposed right-of-way width for the project is 100 feet for the fivelane section and 200 feet for the four-lane divided section. The applicant has identified two sections of this project designated CA and CB. Section CA consists of the five-lane, curb and gutter facility and crosses an unnamed tributary to Big Meadow Creek, an unnamed tributary to Island Creek and Island Creek. A total of .05 acres of wetland and 499 linear feet of stream channel would be impacted by culvert extensions and channel relocation at the three stream crossings on Section CA. Streams are both intermittent and perennial. The existing double cell box culvert at Island Creek would be extended on both the upstream and downstream ends together with excavation to realign the channel affecting approximately 92 feet of channel (Site 5). Approximately 318 linear feet of the unnamed tributary to Big Meadow Creek would be relocated to the north of the roadway utilizing natural stream channel design (Site 1). A .05 acre herbaceous wetland vegetated with panic grass and smartweed would also be impacted at Site 1.

Section CB consists of the four-lane, median divided facility that crosses an unnamed tributary of Island Creek, Cucumber Creek, Stony Run Creek, Big Bear Creek and four unnamed tributaries. A total of .16 acres of wetland and 862 linear feet of stream channel would be impacted

by culvert replacement/extensions and channel realignments at six stream crossings on Section CB. Streams are both intermittent and perennial. Individual channel impacts range from 49 feet at Site11 on an unnamed tributary of Big Bear Creek to 321 feet at Site 9 on an unnamed tributary of Stony Run Creek. It is proposed to span Stony Run Creek and Big Bear Creek with bridges. A temporary work pad consisting of .02 acres of rock fill would be used on the west bank of Stony Run Creek to facilitate bridge construction (Site 12). Approximately .01 acres of herbaceous wetland vegetated with black needlerush would be impacted at Site 5 adjacent to an unnamed tributary to Stony Run Creek. A forested wetland measuring .15 acres and vegetated with black willow, red maple, green ash, blackberry and elderberry would be impacted at Site 11 adjacent to an unnamed tributary of Big Bear Creek.

The project as a whole would impact .21 acres of wetland, 899 linear feet of intermittent stream channel and 462 linear feet of perennial stream channel. Approximately 318 linear feet of intermittent channel on the CA Section would be relocated utilizing natural stream channel design. The applicant is proposing to mitigate for the remaining stream losses at a 2:1 ratio for perennial channels and at a 1:1 ratio for intermittent channels. Stream channel losses from the CB Section would be mitigated by contributing to the North Carolina Ecosystem Enhancement Program (EEP). Stream channel losses from the CA Section would be mitigated by utilization of the Back Creek Mitigation Site in northeastern Mecklenburg County which is currently under design. Wetland losses would not be mitigated according to the applicant's current proposal. The adequacy of this mitigation proposal will be evaluated for consistency with current mitigation policy and guidelines during this permit review. All proposed mitigation would occur in the Yadkin River Basin, Hydrologic Unit 03040105. A Federal Environmental Assessment (EA) for the proposed work was approved by the Federal Highway Administration (FHWA) on January 30, 1998. A Finding of No Significant Impact was signed by the FHWA on December 2, 1998. An Indirect and Cumulative Effects report was completed for this project on May 7, 2003. The purpose of the proposed work is to improve safety and traffic capacity of NC 24/27 and provide an improved transportation corridor between Charlotte and Albemarle. Plans showing the proposed work are included with this public notice.

The State of North Carolina will review this public notice do determine the need for the applicant to obtain any required State authorization. No Department of the Army (DA) permit will be issued until the coordinated State viewpoint on the proposal has been received and reviewed by this agency, nor will a DA permit be issued until the North Carolina Department of Environment and Natural Resources (NCDENR) has determined the applicability of a Water Quality Certificate as required by PL 92-500.

This application is being considered pursuant to Section 404 of the Clean Water Act (33 U.S.C. 1344). Any person may request, in writing within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for public hearing shall state, with particularity, the reasons for holding a public hearing.

The District Engineer has consulted the latest published version of the National Register of Historic Places for the presence or absence of registered properties, or properties listed as being eligible for inclusion therein, and this worksite is not registered property or property listed as being

eligible for inclusion in the Register. Consultation of the National Register constitutes the extent of cultural resource investigations by the District Engineer, and he is otherwise unaware of the presence of such resources. Presently, unknown archeological, scientific, prehistorical, or historical data may be lost or destroyed by work under the requested permit.

The District Engineer, based on available information, is not aware that the proposed activity will affect species, or their critical habitat, designated as endangered or threatened pursuant to the Endangered Species Act of 1973. The last survey for the F ederally endangered Schweinitz's sunflower was done in September 1996. The applicant states that the project area will be resurveyed for the presence of Schweinitz's sunflower during the fall 2003 flowering season.

The decision whether to issue a permit will be based on an evaluation of the probable impacts, including cumulative impacts, of the proposed activity and its intended use on the public interest. Evaluation of the probable impacts which the proposed activity may have on the public interest requires a careful weighing of all those factors which become relevant in each particular case. The benefits which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. The decision whether to authorize a proposal, and if so the conditions under which it will be allowed to occur, are therefore determined by the outcome of the general balancing process. That decision should reflect the national concern for both protection and utilization of important resources. All factors which may be relevant to the proposal must be considered including the cumulative effects thereof. Among those are conservation, economics, aesthetics, general environmental concerns, wetlands, cultural values, fish and wildlife values, flood hazards and flood plain values (in accordance with Executive Order 11988), land use, navigation, shore erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production, mineral needs, considerations of property ownership, and, in general, the needs and welfare of the people. For activities involving the placement of dredged or fill materials in waters of the United States, a permit will be denied if the discharge that would be authorized by such permit would not comply with the Environmental Protection Agency's 404(b)(1) guidelines. Subject to the preceding sentence and any other applicable guidelines or criteria, a permit will be granted unless the District Engineer determines that it would be contrary to the public interest.

The Corps of Engineers is soliciting comments from the public; Federal, State and local agencies and officials; Indian Tribes and other interested parties in order to consider and evaluate the impacts, including secondary and cumulative impacts, of this proposed activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment (EA) and/or an Environmental Impact Statement (EIS) pursuant to the National Environmental Policy Act (NEPA). Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

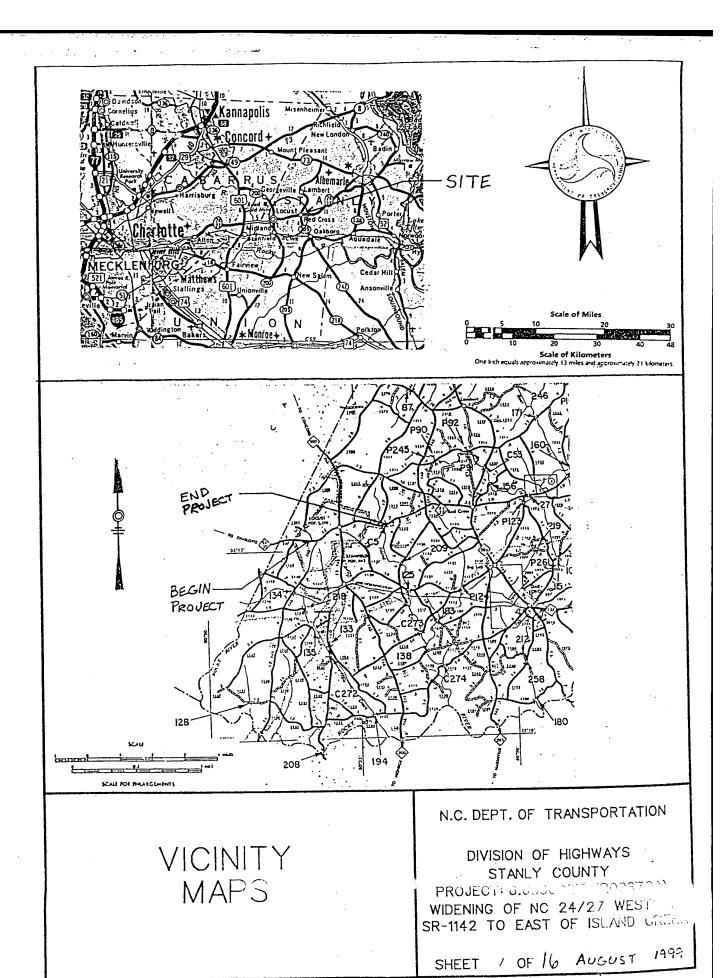
Generally, the decision whether to issue this Department of the Army (DA) permit will not be made until the North Carolina Division of Water Quality (NCDWQ) issues, denies, or waives State certification required by Section 401 of the Clean Water Act. The NCDWQ considers whether or not the proposed activity will comply with Sections 301, 302, 306 and 307 of the Clean Water Act. The application and this public notice for the DA permit serves as application to the NCDWQ for

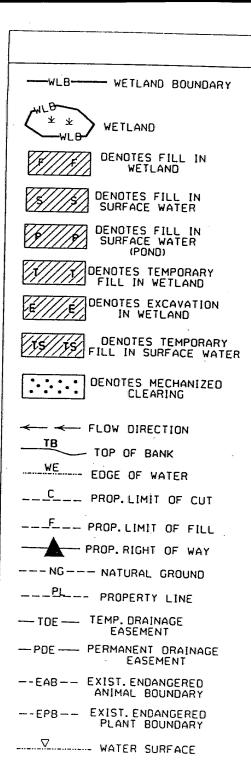
certification.

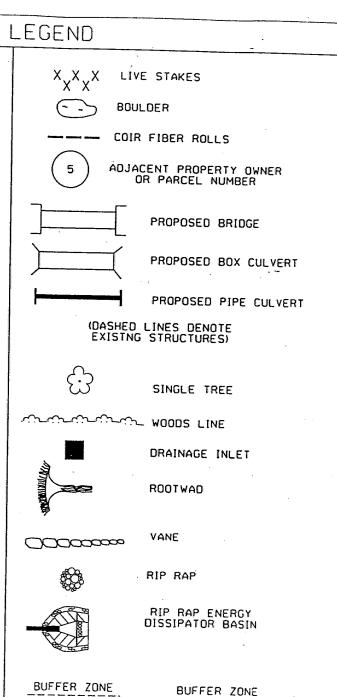
Additional information regarding the Clean Water Act certification may be reviewed at the offices of the 401 Wetlands Certification Unit, North Carolina Division of Water Quality (NCDWQ), 2321 Crabtree Blvd., Raleigh, North Carolina 27604. Copies of such materials will be furnished to any person requesting copies upon payment of reproduction costs.

All persons desiring to make comments regarding the application for Clean Water Act certification should do so in writing delivered to the North Carolina Division of Water Quality Wetlands Section, 1621 Mail Service Center, Raleigh, North Carolina 27626-0621, on or before September 10, 2003, Attention: Mr. John Dorney.

Written comments pertinent to the proposed work, as outlined above, will be received in this office, Attention: Mr. Steven Lund, until 4:15 p.m., September 17, 2003, or telephone (828) 271-7980.







# NCDOT

DIVISION OF HIGHWAYS

STANLY COUNTY

PROJECT: 6.689002T (R-967CA)

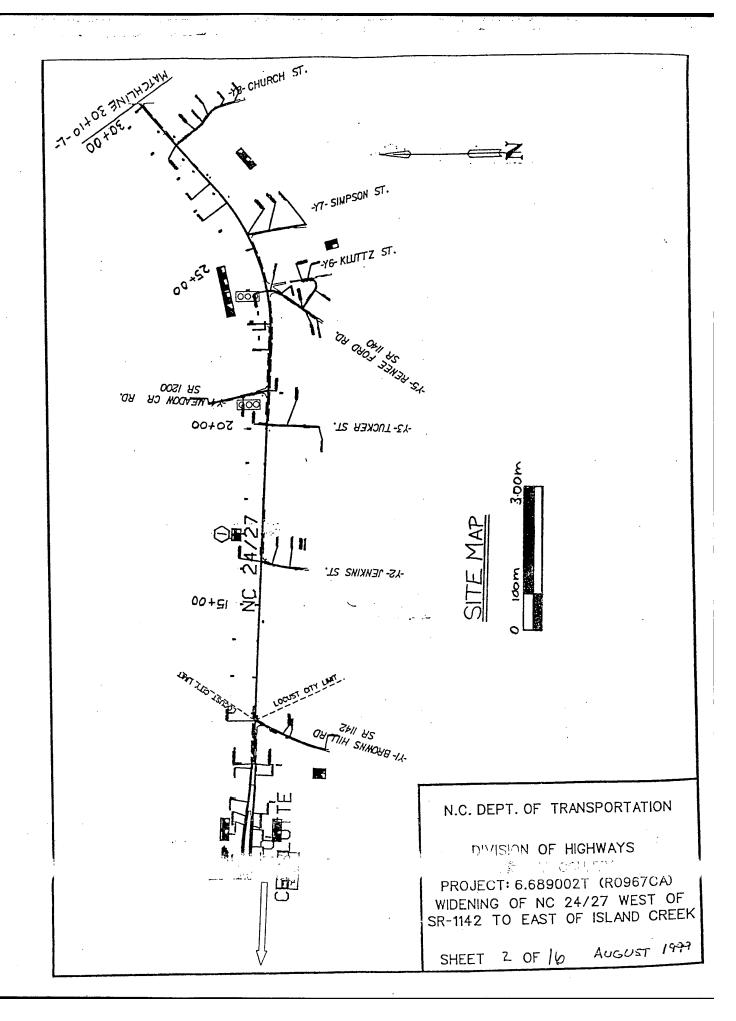
WIDENING OF NC 24/27

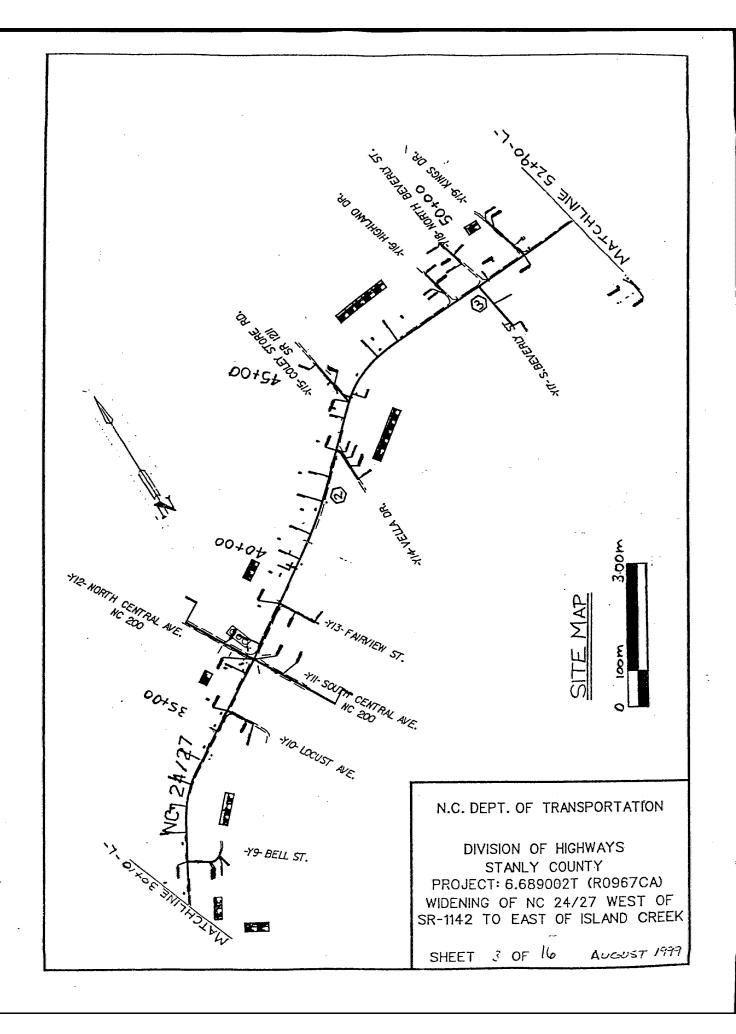
WEST OF SR 1142 TO EAST

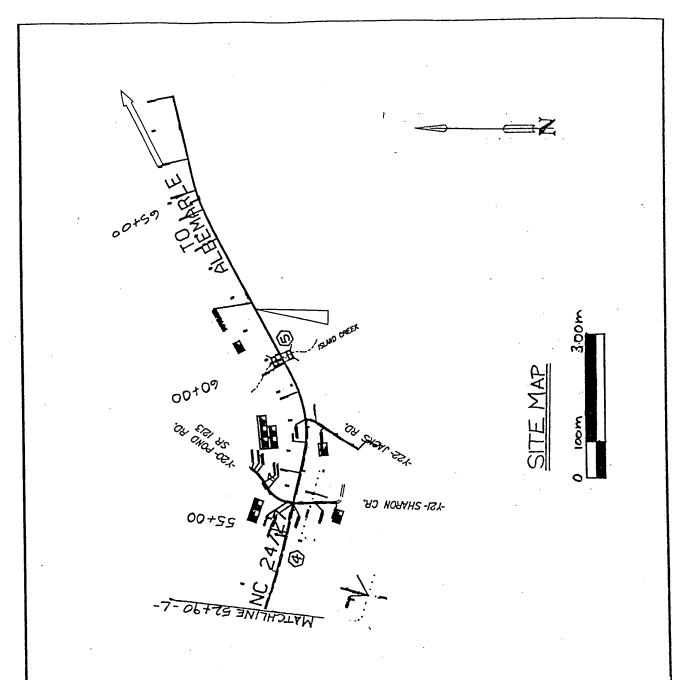
OF ISLAND CREEK

SHEET IA OF 16

4/15/05







N.C. DEPT. OF TRANSPORTATION

DIVISION OF HIGHWAYS

ST. " Y COUNTY

PROJECT: OF LINES LAND

WIDENING OF NC 24727 WEST OF SR-1142 TO EAST OF ISLAND CREEK

SHEET 4 OF 16 AUGUST 1977

Natural Channel Design Summary Unnamed Tributary to Meadow Creek TIP No. R-0967 CA State Project No. 6.689002T Stanley County, North Carolina

Prepared by Barbara H. Mulkey Engineering, Inc.

March 2003

This natural channel design summary is presented to the North Carolina Department of Transportation (NCDOT) as part of on-site compensatory mitigation for the proposed upgrade of NC 24/27 in Stanley County. The widening of NC 24/27 extends from west of SR 1142 near the Cabarrus and Stanley County line through the Town of Locust to east of Island Creek and SR 1213. An unnamed tributary (UT) to Meadow Creek, situated immediately west of Locust, will be relocated northward from its existing location outside of the proposed fill limits. The UT has been identified as a perennial stream and is part of the Yadkin/Pee Dee River Subbasin 03-07-12 (USGS Hydrologic Unit 03040105). A morphological table, complete with existing channel, reference reach, and proposed reach characteristics is attached. In addition, proposed design and detail sheets are also included with this summary. The project is within the Piedmont physiographic province.

The headwaters associated with the UT to Meadow Creek originate immediately west of Locust, near the project area. The UT flows in a northwesterly direction approximately 1.5 mi (2.9 km) before converging with Meadow Creek, then another 1.5 mi (2.9 km) to the southeast to unite with the Rocky River. The drainage area at the project site is approximately 0.08 sq. mi (0.2 sq. km). It is considered rural and relatively undisturbed, aside from the road fill associated with NC 24/27. The proposed project will require the stream to be relocated due to existing fill slope design requirements. Overall stream length will be reduced and slope will be increased in order to correctly align the new channel with its modified valley type.

#### Existing Channel 1

A 400-foot (121.9-meter) section of the single thread natural channel associated with the UT to Meadow Creek was surveyed during December 2002. This section was located near Sta. 17+00 near the western terminus of the proposed project area. The surveyed reach exhibited channel characteristics similar to a G4 stream type, as noted by the Rosgen Classification of Natural Rivers. The G4 stream type exhibits low to moderate sinuosities, moderate channel gradients, and low channel width/depth ratios. This stream type is very unstable due to the very high sediment supply available from both upslope and channel derived sources. Its pools are often filling with bedload, as the potential for sediment storage is high. No natural pools were observed during the existing channel surveys. Bank erosion and bedload transport rates are typically high and the ratio of bedload to total sediment load often exceeds 50%. These stream types are very sensitive to disturbance and tend to make significant adverse channel adjustments to changes in flow regime and sediment supply from the watershed (Rosgen and Silvey, 1998). Several headcuts were noted along the surveyed reach, with the largest at stream station 2+18. This headcut dropped approximately 4 ft (1.2 m). The UT exhibited a bankfull cross sectional area of 3.67 sq. ft (0.34 sq. m), an average slope of 0.0406, and a D50 of 9.0 mm. A detailed summary of existing channel conditions is presented in attached morphological table.

### Reference Reach

Due to the existing, unstable condition of the UT, a stable stream (UT Varnals Creek) outside of the project area was selected as the reference reach. This channel was selected based on its watershed components, stream type, and other general characteristics. The reference reach channel is situated in Alamance County and classifies as a B4a. It exhibits a drainage area of 0.24 sq. mi (0.62 sq. km) and a bankfull cross sectional area of 7.9 sq. ft. Based on surveys, the channel is stable and exhibits very low bank height ratios. Its valley characteristics are very comparable with the existing channel. Little to no bank erosion was noted during the survey. A detailed summary of reference conditions are also presented in the attached morphological table.

#### **Proposed Channel**

The proposed channel was based on dimensionless ratios derived from the reference reach survey and data interpretation. The bankfull width will be increased from 4.6 ft (1.4 m) to 7.5 ft (2.3 m) and the bankfull mean depth will be reduced from 0.79 ft (0.24 m) to 0.5 ft (0.15 m). As a result, the width/depth ratio will increase to approximately 15 from the existing 5.8 ratio. A decrease in both the bankfull mean velocity and bankfull discharge is anticipated. The design stream will exhibit additional floodprone area; however, meander lengths will be reduced to better reflect reference reach pattern characteristics. The radius of curvatures will average approximately 16.0 ft (4.9 m), an increase of approximately 3.0 ft (0.9 m). Slopes will be slightly increased due to the loss of overall stream length; however, energy will be dissipated via step/pool morphology characteristic with the B stream type. Rock cross vanes will be the primary method influencing the step/pool morphology. These cross vanes will be established throughout the channel in riffle sections and used to provide grade control, center the thalweg, and protect the stream banks on both sides of the new channel until vegetation is established. The cross vanes will also decrease shear stresses throughout the reach. The riparian zone adjacent to the channel will be planted with native vegetation conducive to wetter, floodplain areas.

Proposed channel stabilization characteristics are presented on the attached detail sheet. It is anticipated that the riparian zone will be planted with native trees and shrubs above bankfull depth and herbaceous species within the channel.

#### Sediment Transport

Based on pebble counts and bar samples taken along the existing channel, the D50 averages 9.0 mm and the D84 averages approximately 34.0 mm. The existing channel exhibits a critical shear stress of 1.50 lbs/ft² which may entrain up to a 150 mm particle. Based on the design, the proposed channel will exhibit a critical shear stress of 1.26 lbs/ft² entraining up to a 100 mm particle. This reduction in entrainment will further reduce degradation. In addition, cross vanes will be installed throughout the riffle sections to further reduce the possibility of additional channel degradation.

#### References

North Carolina Department of Environment and Natural Resources (NCDENR), 1998. Yadkin/Pee Dee Basinwide Water Quality Management Plan.

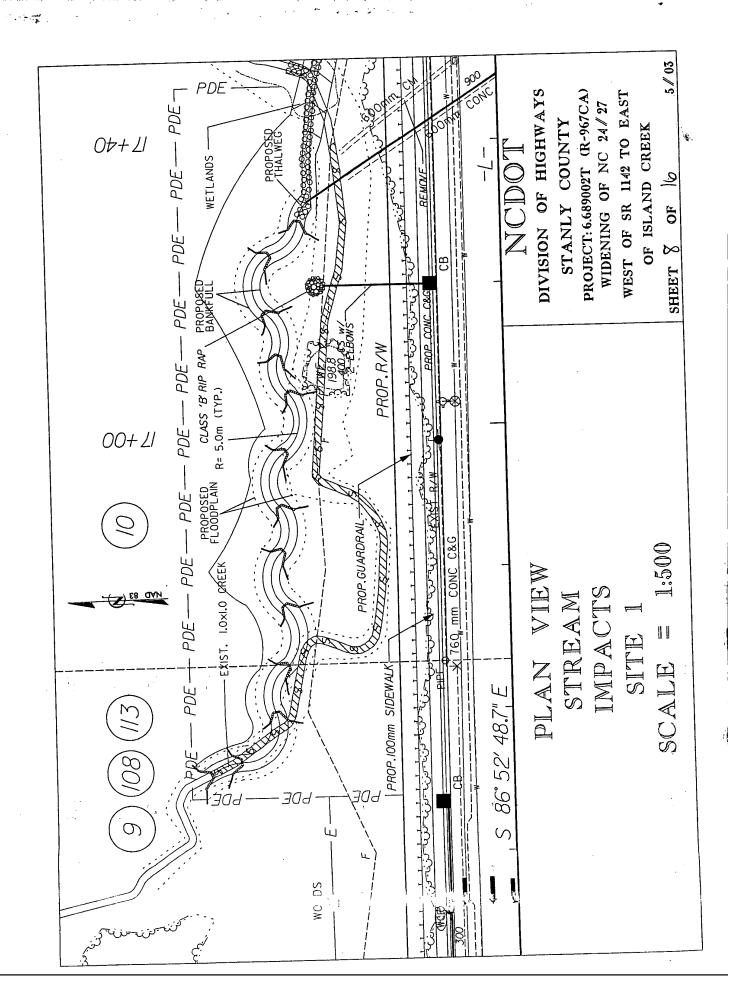
Rosgen, D. and L. Silvey, 1998. Field Guide for Stream Classification. Wildland Hydrology, Inc.

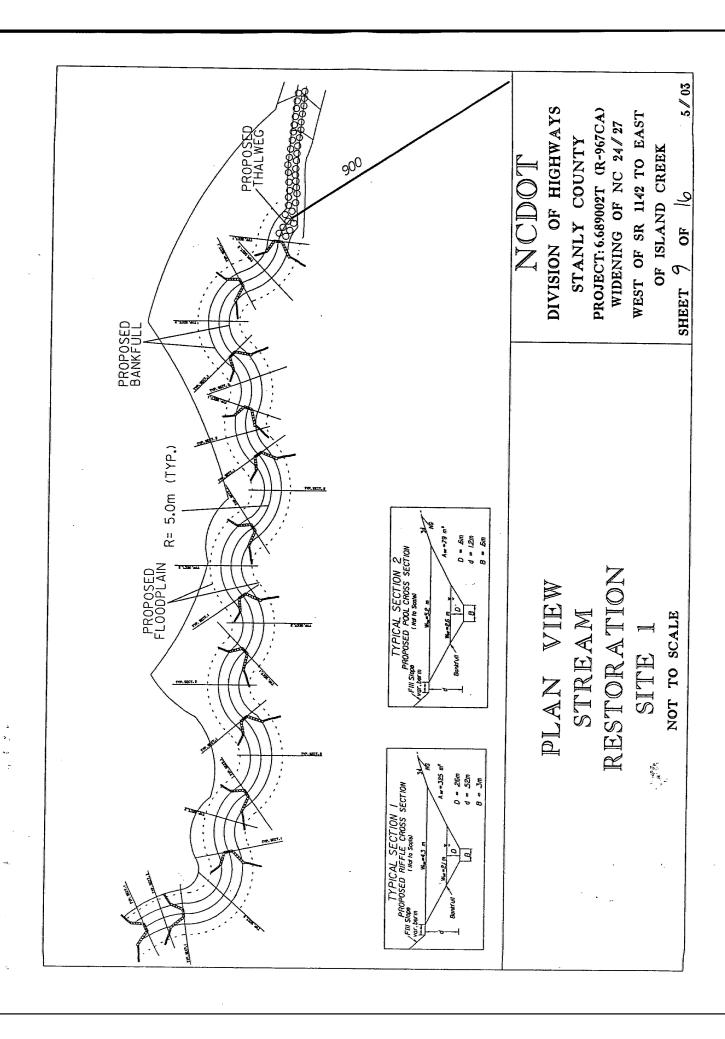
# Appendix B

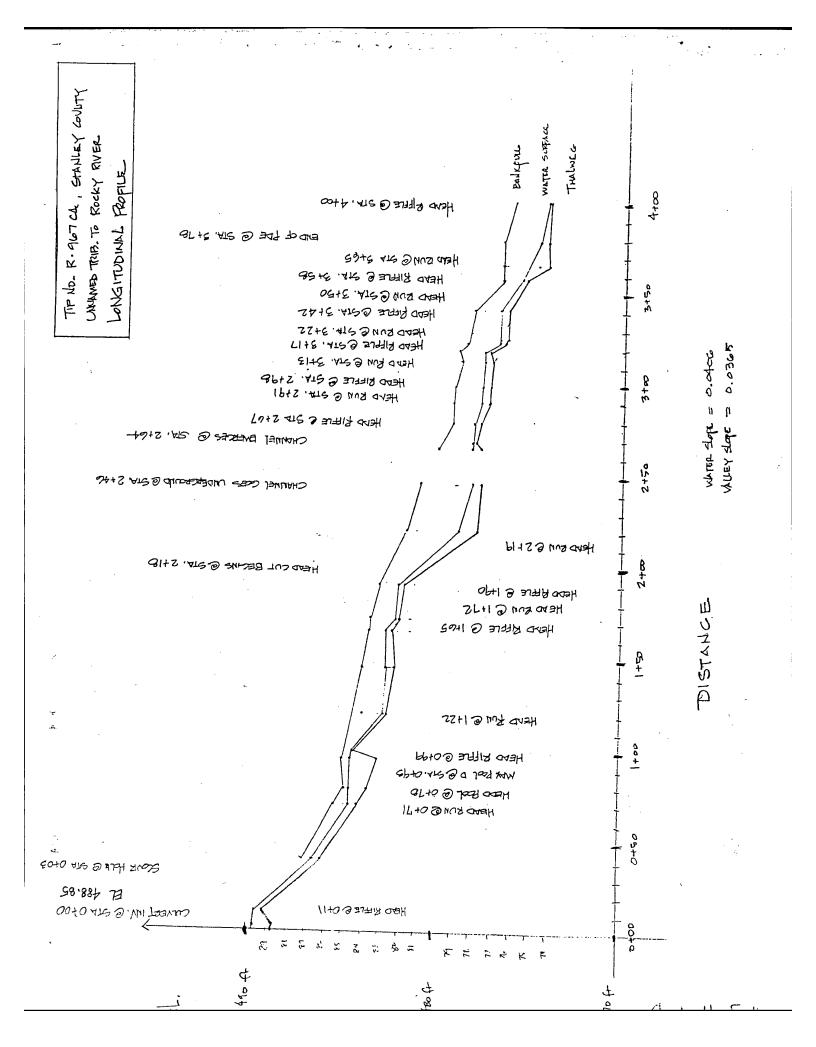
# **Morphological Measurement Table**

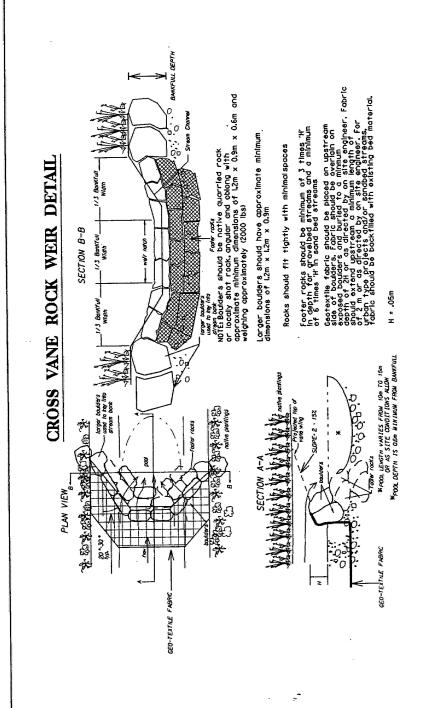
Variables	Existing Channel	Proposed Reach	USGS Station	Reference Reach
1. Stream type	G4	B4a		B4/1a
2. Drainage area	0.08 sq. mi.	0.08 sq. mi.		0.24 sq. mi.
3. Bankfull width	4.6 ft.	7.5 ft.		9.7 ft.
4. Bankfull mean depth	0.79 ft.	0.5 ft.		0.8 ft.
5. Width/depth ratio	5.8	15.0		12.7
6. Bankfull cross-sectional area	3.67 sq. ft	3.75 sq. ft.		7.9 sq. ft.
7. Bankfull mean velocity	5.50 fps	5.38 fps		5.23 fps
8. Bankfull discharge, cfs	20.2 cfs	20.2 cfs		41.33 cfs
9. Bankfull max depth	1.09 ft.	0.69 ft.		1.1 ft.
10. Width of floodprone area	9.1 ft.	14 ft.		26.2 ft.
11. Entrenchment ratio	2.0	1.9		2.7
12. Meander length	70.0 ft	45.0 ft.		59.0 ft.
13. Ratio of meander length to bankfull width	15.2	6.0		6.0
14. Radius of curvature	13.0 ft	16.0 ft.	-	13.4 ft.
15. Ratio of radius of curvature to bankfull width	2.8	2.1		1.4
16. Belt width	50.0 ft.	30.0 ft.		15.0 ft.
17. Meander width ratio	10.9	4		1.5
18. Sinuosity (stream length/valley length)	1.16	1.15		
19. Valley slope	0.0518 ft./ft.	0.0537 ft./ft.		1.2
20. Average slope				0.0458 ft./ft.
21. Pool slope	0.0406 ft./ft.	0.0458 ft./ft.		0.0405 ft./ft.
22. Ratio of pool slope to average slope	0.0062 ft./ft.	0.005 ft./ft.		0.0047 ft./ft.
23. Maximum pool depth	0.15	0.10		0.1
24. Ratio of pool depth to average	1.41 ft.	2.0 ft.		1.6 ft.
bankfull depth 25. Pool width	1.78	4.0	· · · · · · · · · · · · · · · · · · ·	1.9
26. Ratio of pool width to bankfull width	15.0 ft.	9.0 ft.		12.0 ft.
27. Pool to pool spacing	3.26	1.2	.i .v.	1.2
28. Ratio of pool to pool spacing to	Not Available	22.8 ft.	46	34.5 ft.
bankfull width	Not Available	3.0	· · · · · · · · · · · · · · · · · · ·	6.3

Sheet 7 of 16







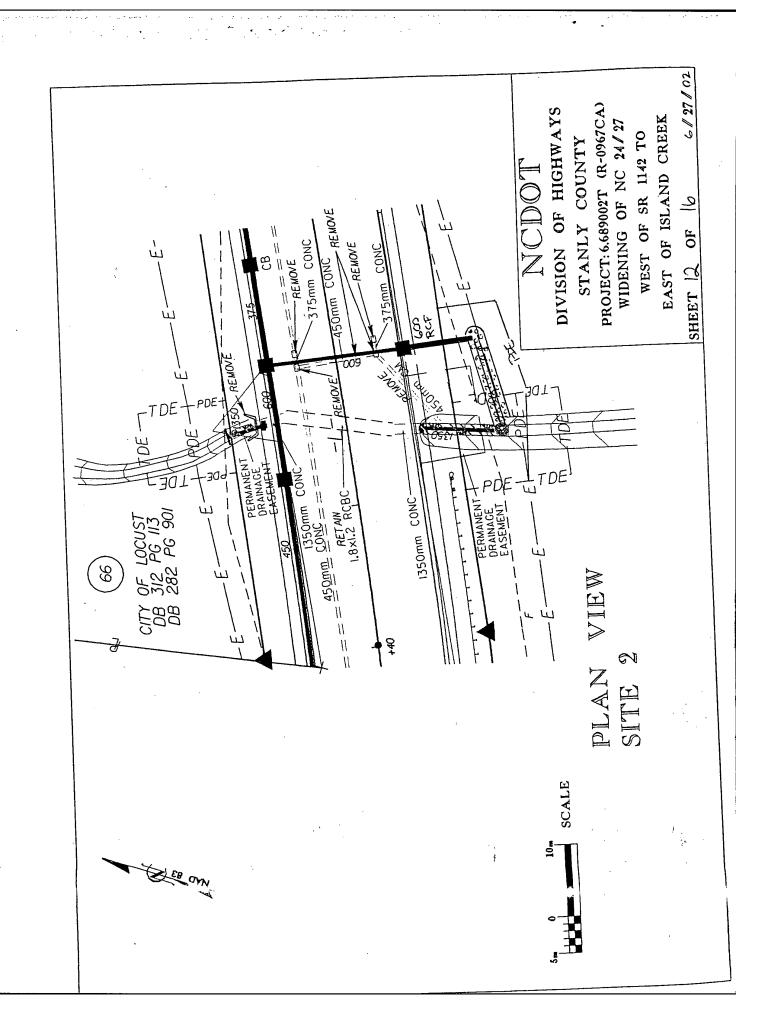


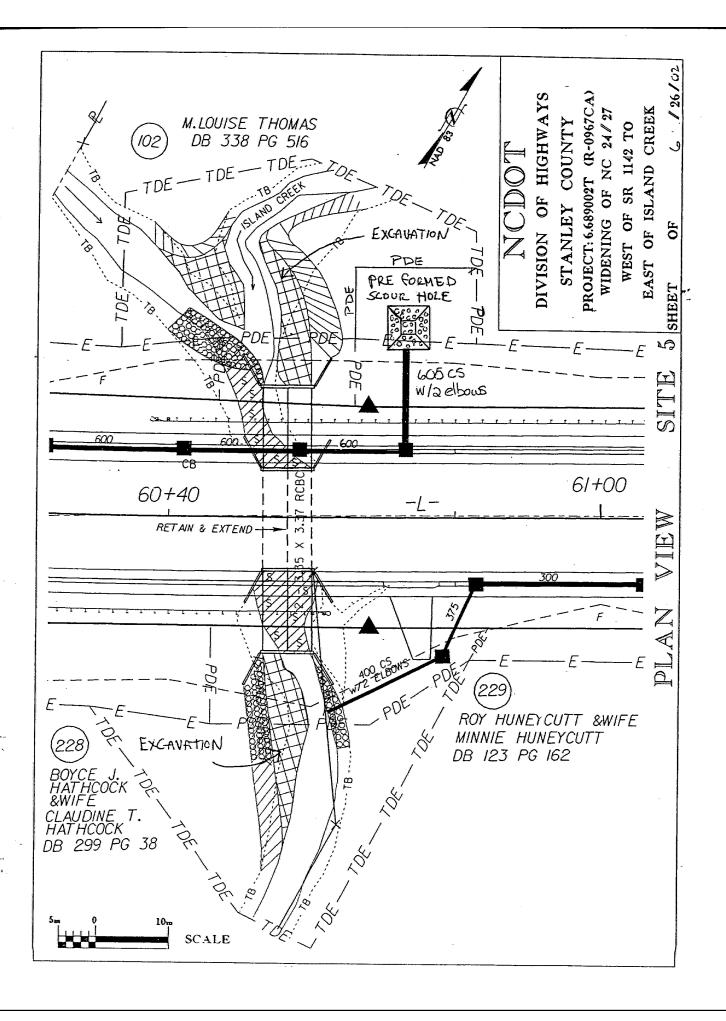
# DIVISION OF HIGHWAYS WEST OF SR 1142 TO EAST PROJECT: 6.689002T (R-967CA) WIDENING OF NC 24/27 STANLY COUNTY OF ISLAND CREEK NCDOT

NOT TO SCALE

CROSSVANE

SHEET 10 OF





# PROJECT: 6.689002T (R-0967CA) DIVISION OF HIGHWAYS EAST OF ISLAND CREEK WIDENING OF NC 24/27 WEST OF SR 1142 TO STANLY COUNTY NCDOT

SHEET 14 OF

TYP CAL CROSS-SECTION FOR SITE

# PROPERTY OWNERS

### NAMES AND ADDRESSES

SITE NO.	PARCEL NO.	OWNER	ADDRESSES
1	10	Judy & John Godwin	1404 W. Main Street Locust, NC 28097
1	9	Mary A. Roye	1508 W. Main Street Locust, NC 28097
1	108	Melvin E. Love	1507 W. Main Street Locust, NC 28097
1	113	Lydia S. Doéson	1419 W. Main Street Locust, NC 28097
2	66	City Of Locust	PO Box 190 Locust, NC 28097
2	199	Locust Lumber Co., Inc.	PO Box 130 Locust, NC 28097
. 3	79	Vicki McCall	PO Box 562 Locust, NC 28097
3	210	McCoy Feed Seed Co., Inc.	13735 Broadway Ave. Midland, NC 28107
4	215	Glen R. Smith	3019 Tuckahoe Street Arlington, VA 22213
5	102	M. Louise Thomas	735 Pine Valley Rd. Winston Salem, NC 27106
5	228	Boyce J. Hatcock	PO Box 194 Locust, NC 28097

# NCDOT

DIVISION OF HIGHWAYS

STANLY COUNTY

PROJECT: 6.689002T (R-967CA)

WIDENING OF NC 24/27 \*

WEST OF SR 1142 TO EAST

OF ISLAND CREEK

SHEET 15 OF 16

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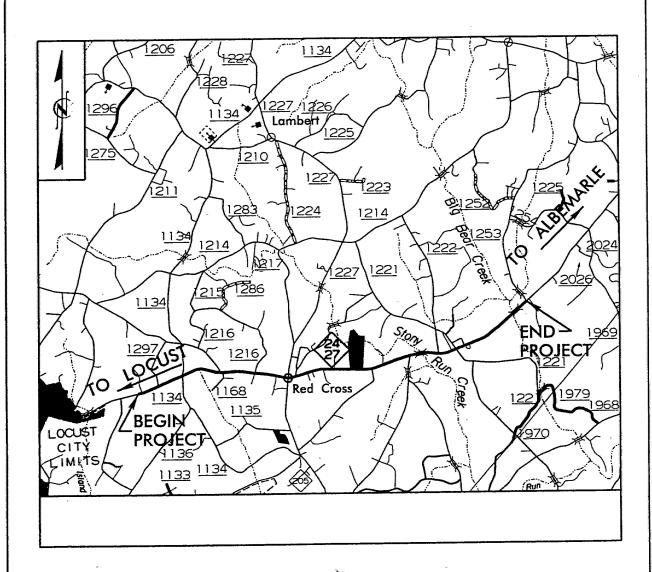
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N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS

R967CA STANLY COUNTY PROJECT: 6.689002T R967

SHEET 16 OF

# VICINITY MAP



N. C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS

STANLY COUNTY

PROJECT: 6.689002T (R-967CB) NC 24-27 FROM EAST OF ISLAND CREEK IN LOCUST TO EAST OF BIG BEAR CREEK NEAR SR 1253 (SAM ROAD)

SHEET 1 OF 21

### LEGEND

-WLB----WETLAND BOUNDARY



WETLAND



DENOTES FILL IN WETLAND



DENOTES FILL IN SURFACE WATER



DENOTES FILL IN SURFACE WATER (POND)



DENOTES TEMPORARY FILL IN WETLAND



DENOTES EXCAVATION IN WETLAND



DENOTES TEMPORARY FILL IN SURFACE WATER

DENOTES MECHANIZED CLEARING

− ← FLOW DIRECTION

- TOP OF BANK

\_\_\_\_WE \_\_\_ EDGE OF WATER

\_\_C\_\_\_ PROP.LIMIT OF CUT



- PROP. RIGHT OF WAY

---NG--- NATURAL GROUND

---<sup>PL</sup>--- PROPERTY LINE

- TOE -- TEMP. DRAINAGE EASEMENT

--- PDE ---- PERMANENT DRAINAGE EASEMENT

--EAB-- EXIST. ENDANGERED ANIMAL BOUNDARY

--EPB-- EXIST. ENDANGERED PLANT BOUNDARY

-----WATER SURFACE

LIVE STAKES

COIR FIBER ROLLS



BOULDER





ADJACENT PROPERTY OWNER OR PARCEL NUMBER



PROPOSED BRIDGE



PROPOSED BOX CULVERT

market and the



(DASHED LINES DENOTE EXISTNG STRUCTURES).



SINGLE TREE





DRAINAGE INLET

ROOTWAD



VANE



RIP RAP



RIP RAP ENERGY DISSIPATOR BASIN



BUFFER ZONE

N. C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS

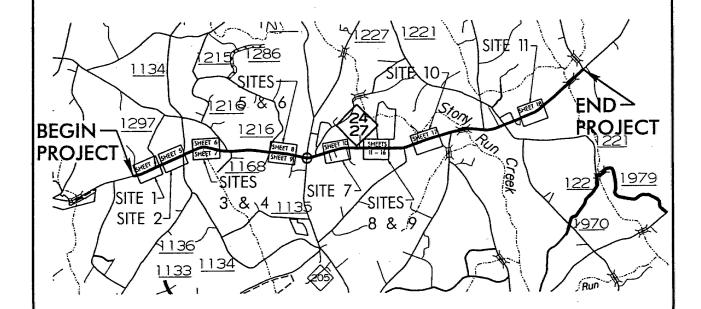
> STANLY COUNTY

PROJECT: 6.005 June (Rel 5/Ch)

NC 24-27 FROM EAST OF ISLAND CREEK IN LOCUST TO EAST OF BIG BEAR CREEK NEAR SR 1253 (SAM ROAD)2 OF 2

SHEET

# SITE MAP



N. C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS

STANLY COUNTY

PROJECT: 6.689002T (R-967CB)

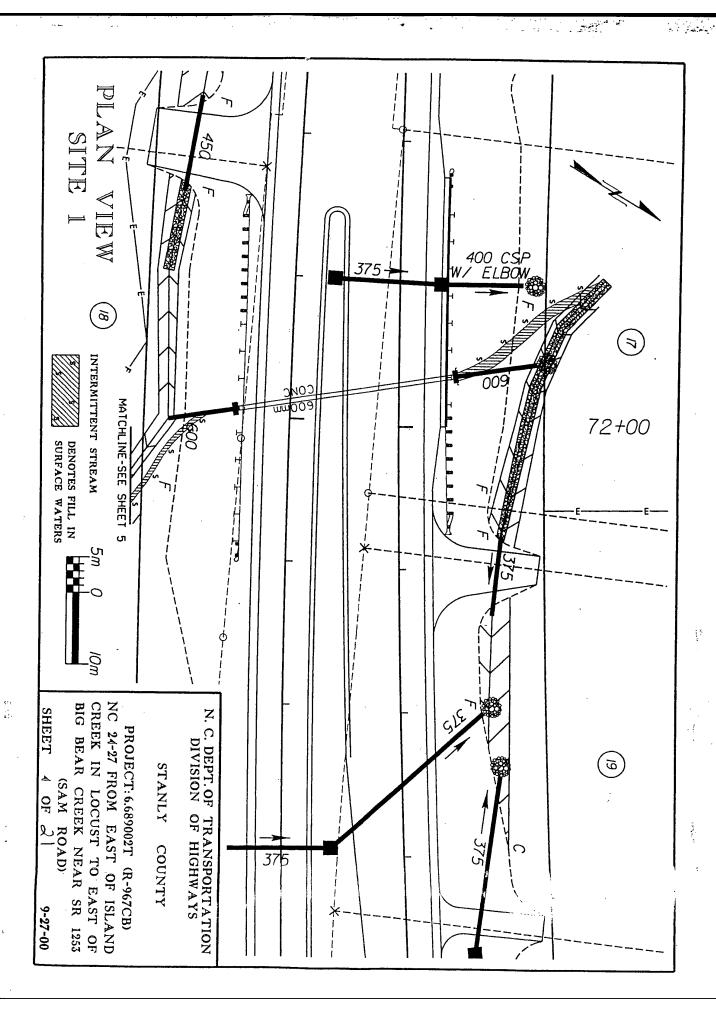
NC 24-27 FROM EAST OF ISLAND

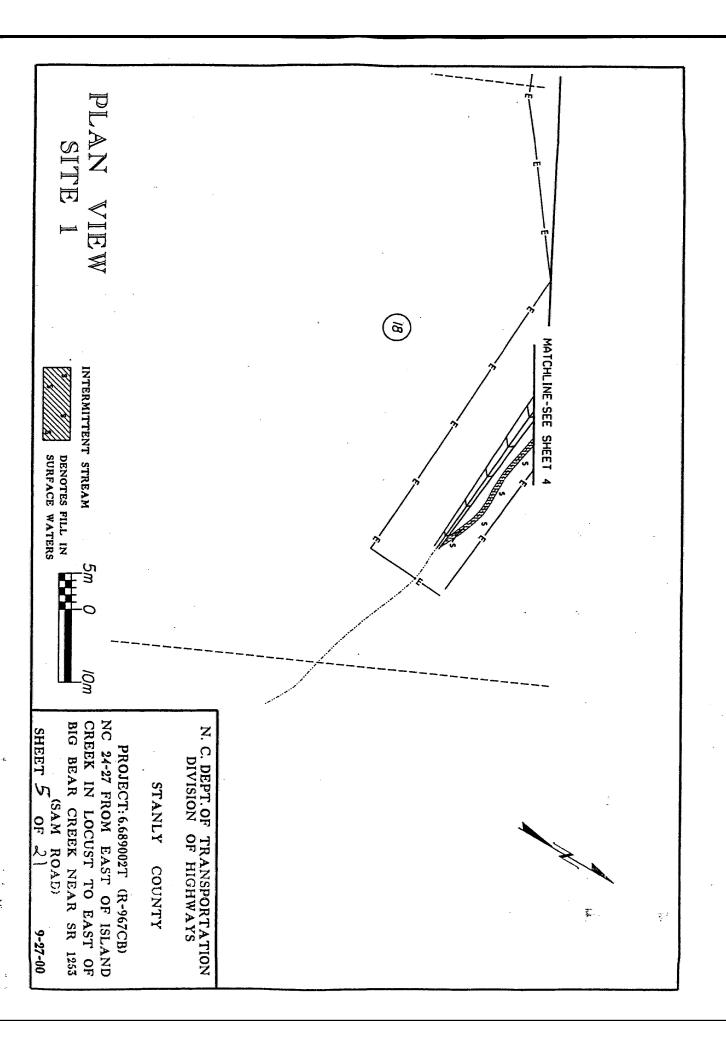
CREEK IN LOCUST TO EAST OF

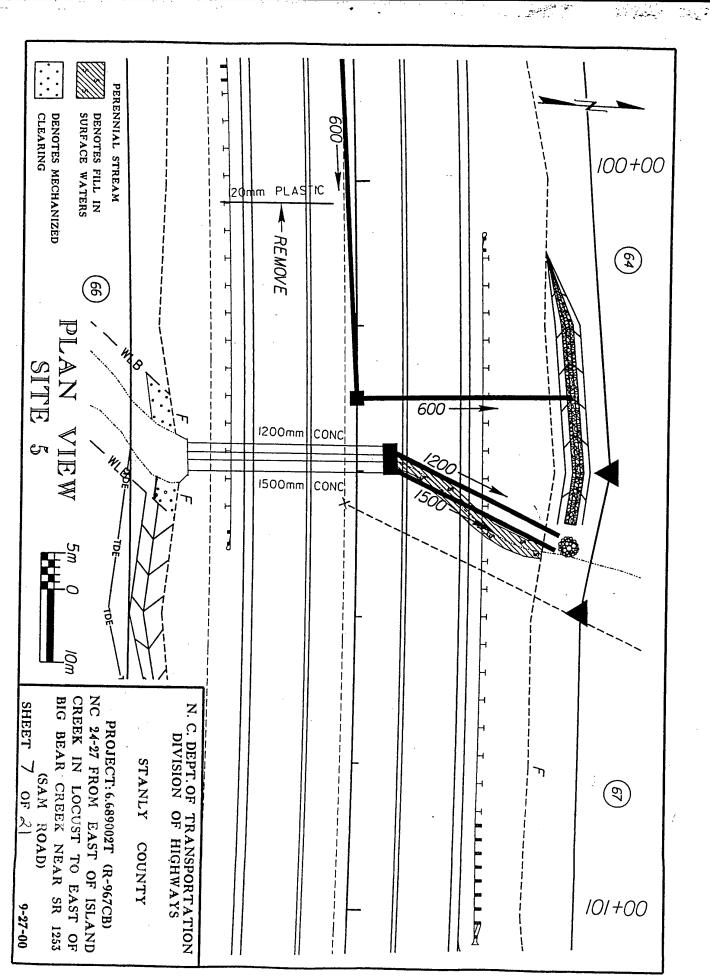
BIG BEAR CREEK NEAR SR 1253

(SAM ROAD)

SHEET 3 OF 2

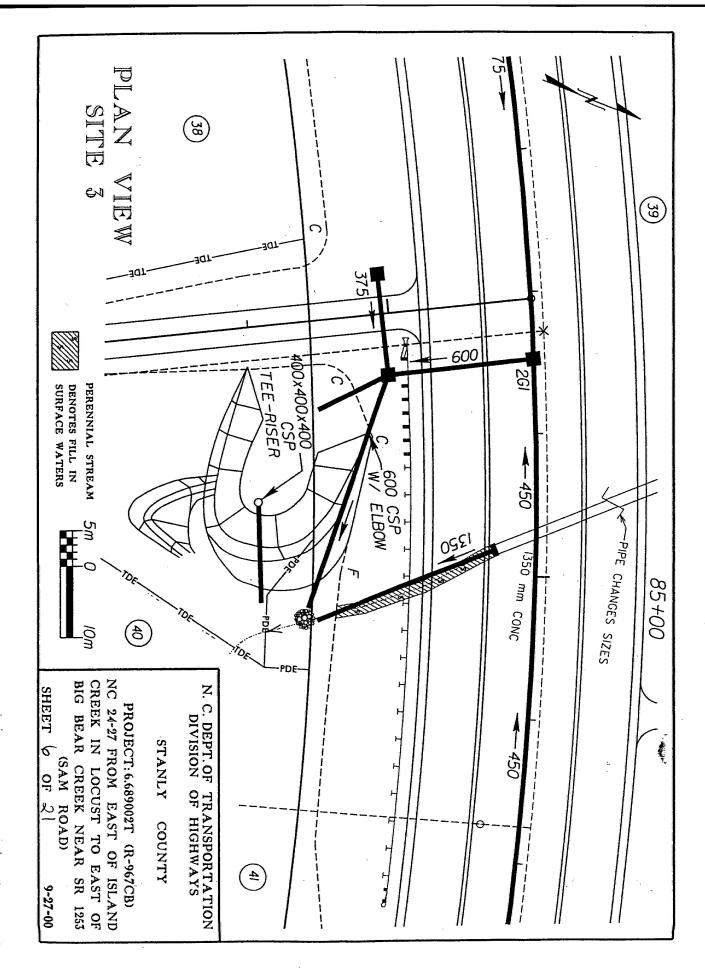




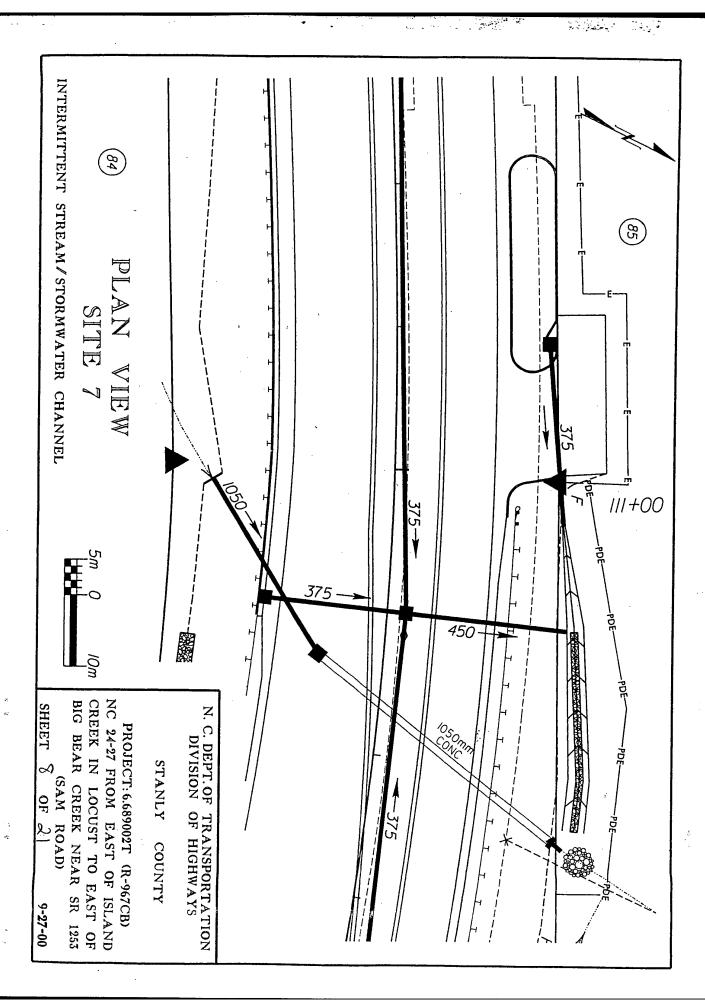


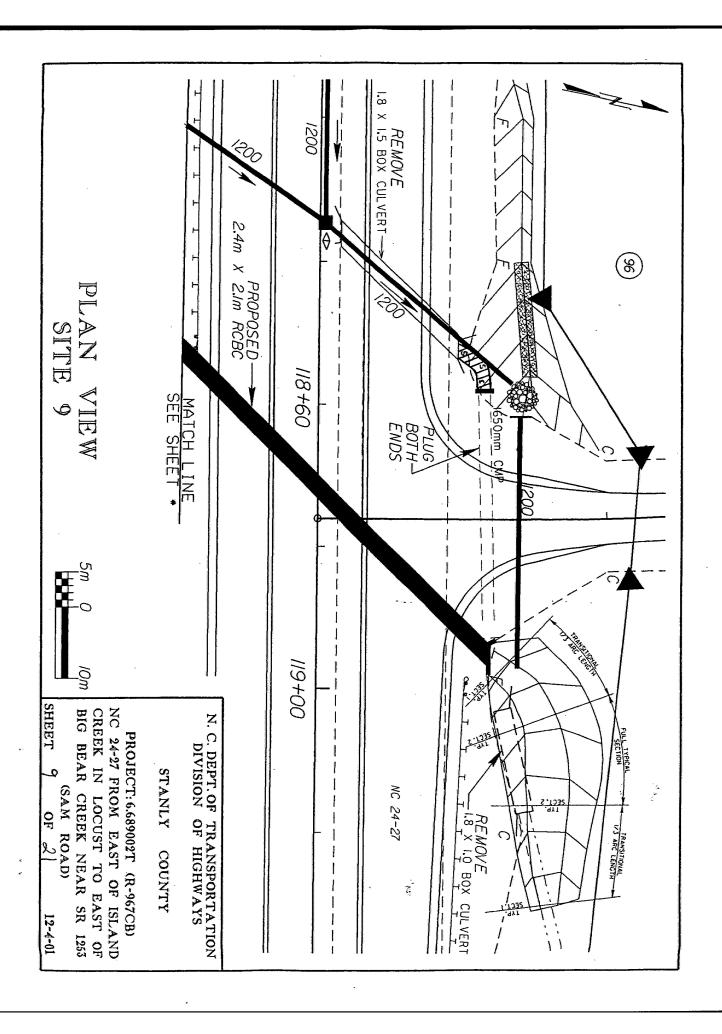
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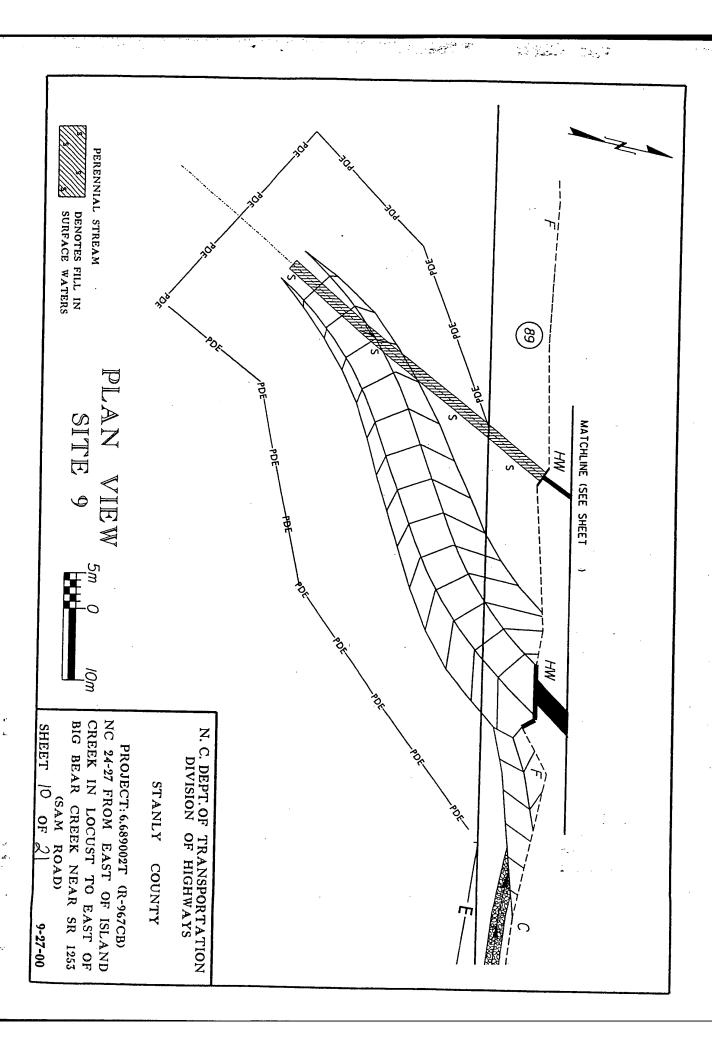
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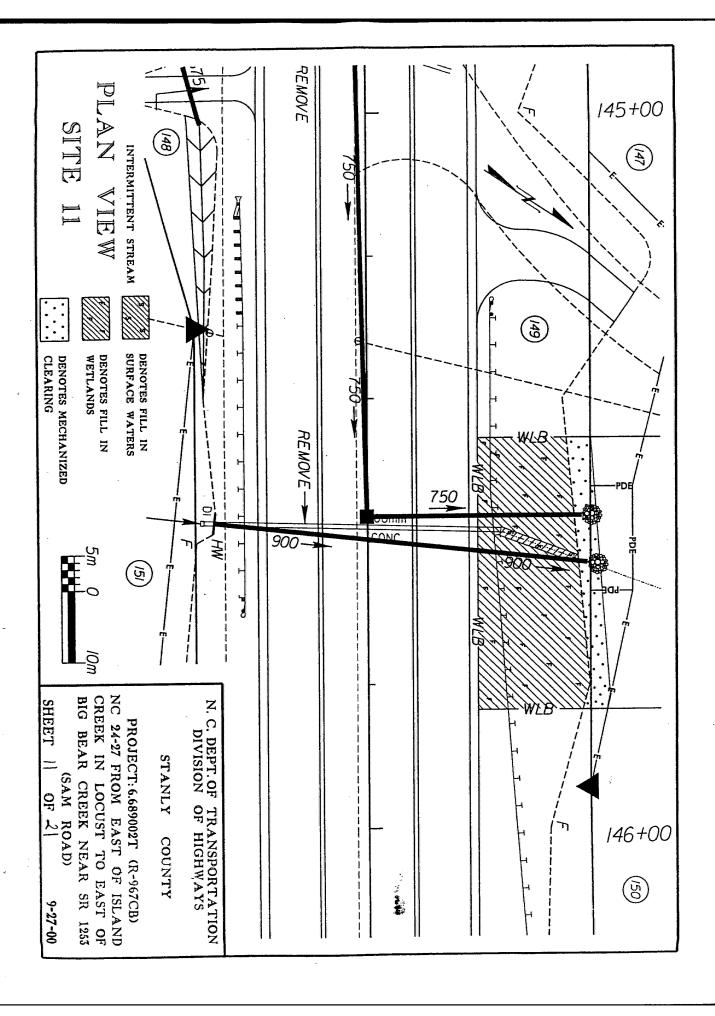


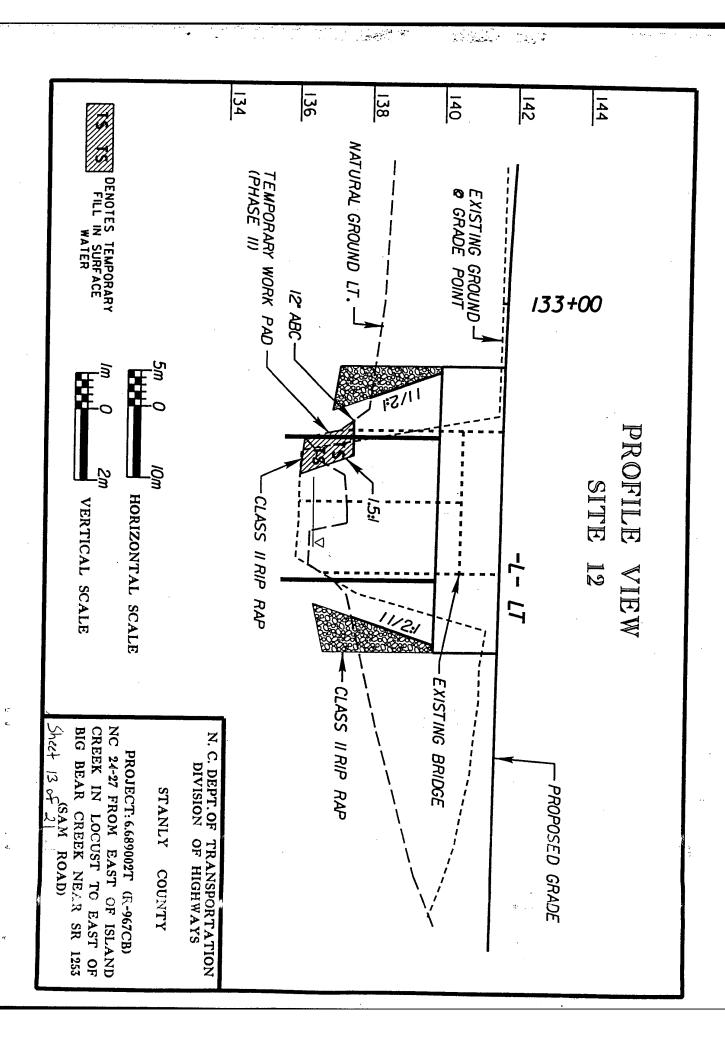
-

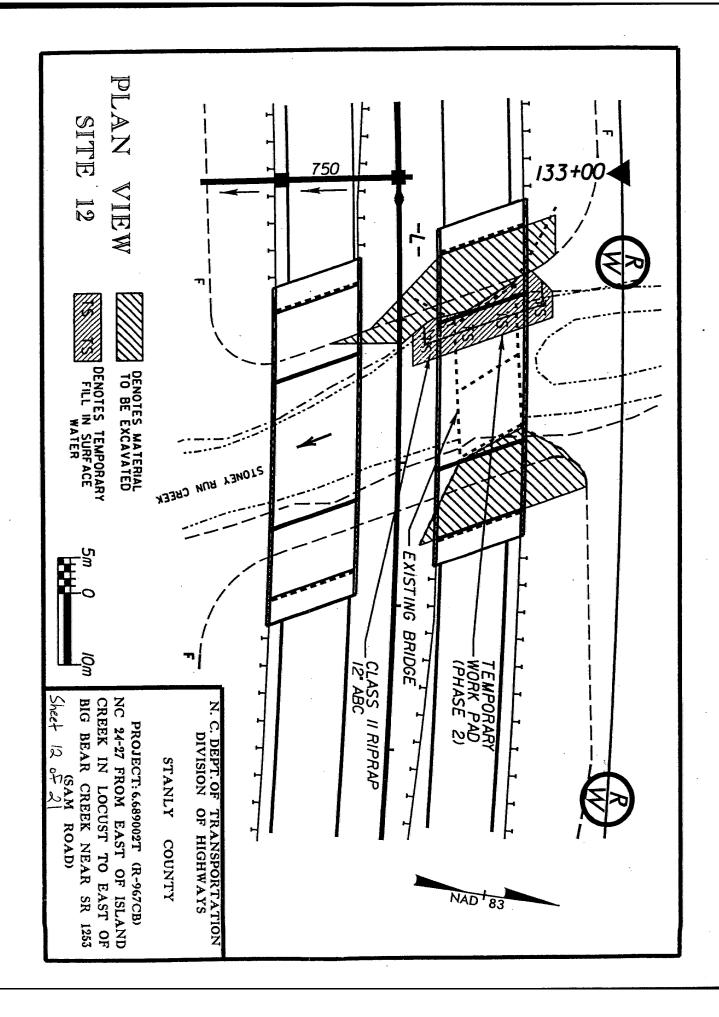




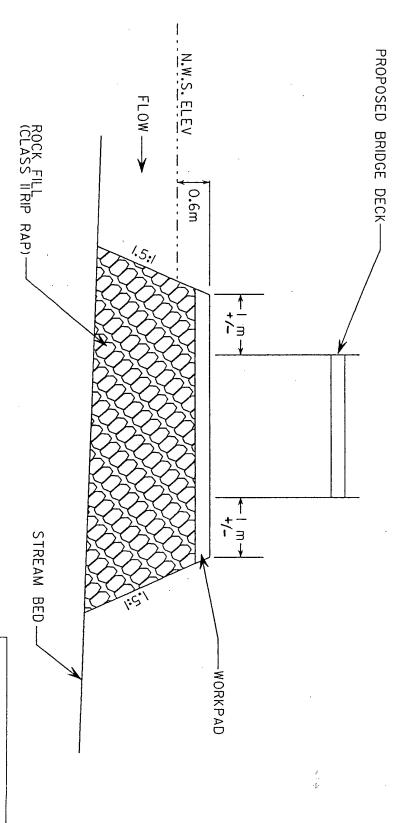












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QUANTITY ESTIMATES

VOLUME OF CLASS IIRIP RAP= 540 cy (410 m³)

AREA OF CLASS IIRIP RAP= 0.04 ha

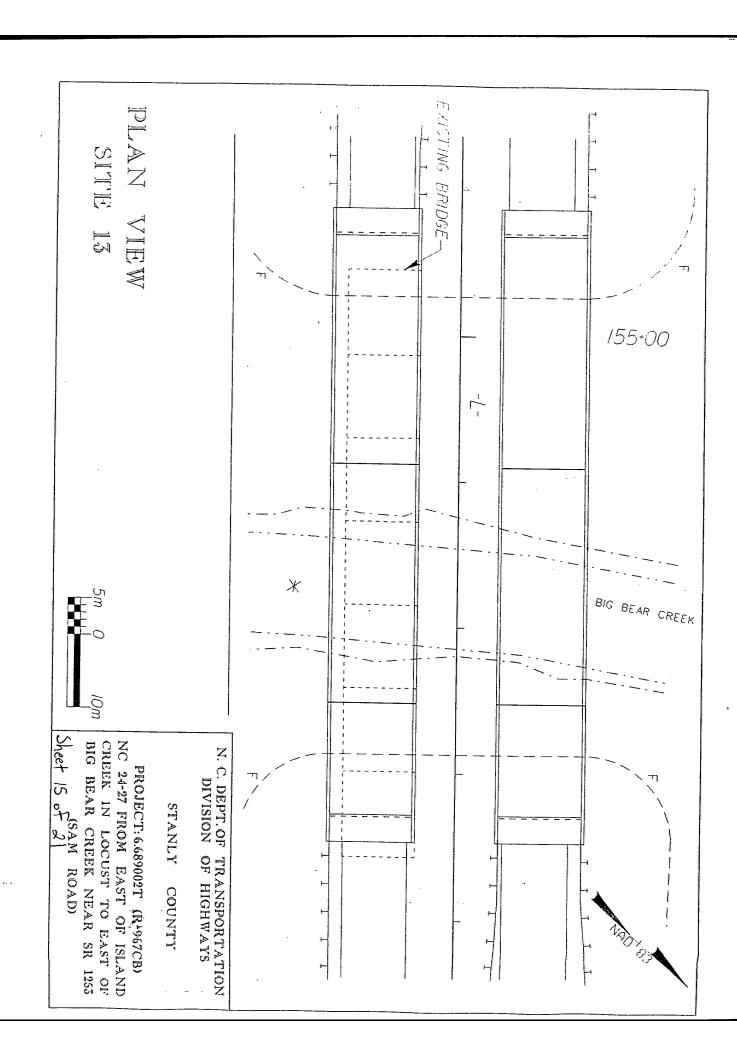
Estimate 720 mTons Class IIRip Rap

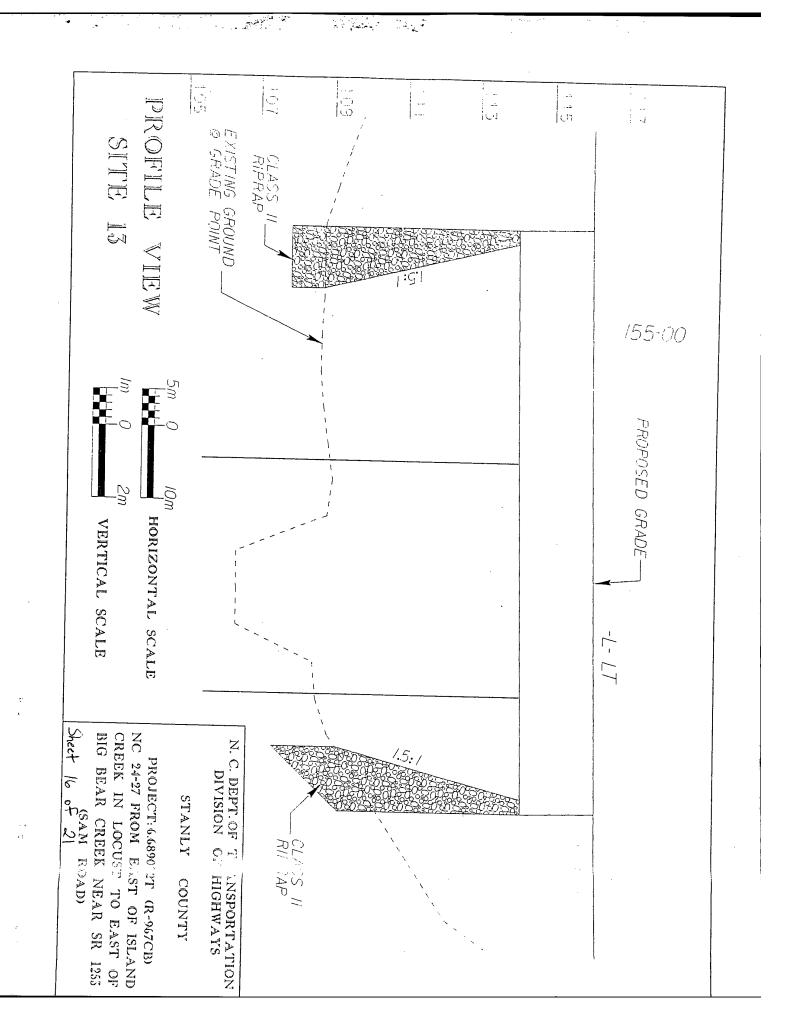
N. C. DEPT.OF TRANSPORTATION DIVISION OF HIGHWAYS

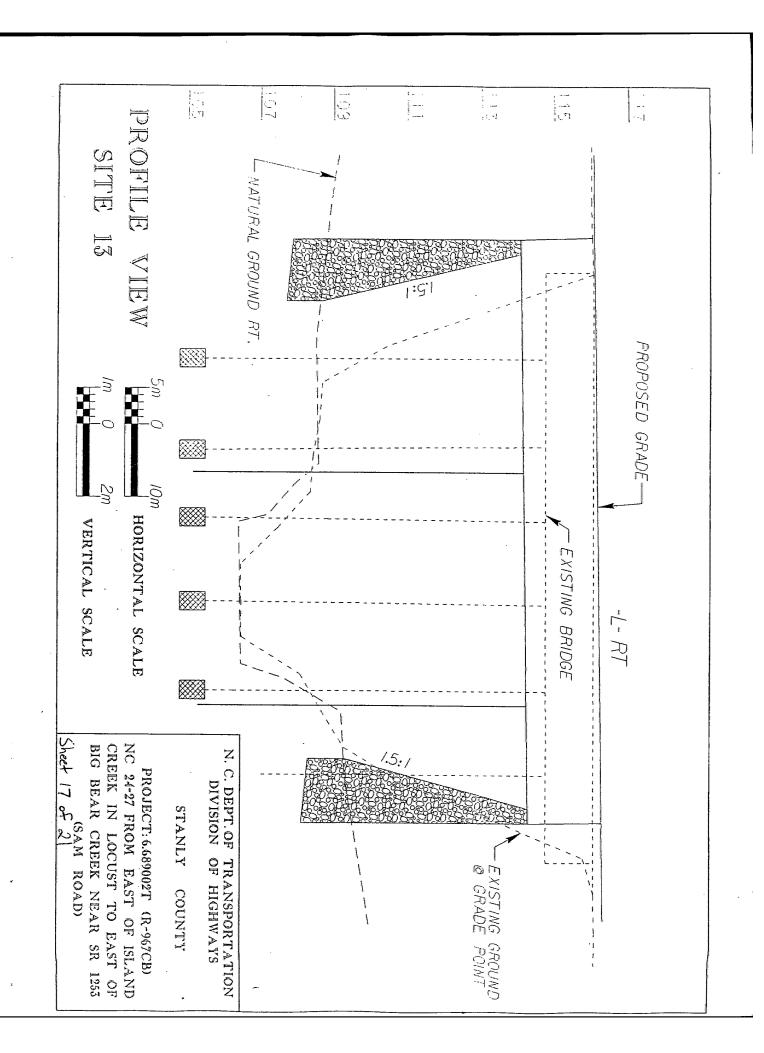
STANLY COUNTY PROJECT: 6.689002T (R-967CB)

NC 24-27 FROM EAST OF ISLAND CREEK IN LOCUST TO EAST OF BIG BEAR CREEK NEAR SR 1253 (SAM ROAD)

SHEET 14 OF 2







Station Stru Situ Situ Situ Situ Situ Situ Situ Sit	Staton   Structure   Fill in   Temp. Fill   Excavation   Mechanized   Fill in   Supplementary   Fill in   Temp. Fill   Excavation   Mechanized   Fill in   Supplementary   S			MPACT SUMMARY	\ \ >										
Satural         Sirrecture         Fill In Verlands In Verlan	Sation         Structure Size         Fill not file of the control of						ND IMPACT	8		SURFACE	NATER IMP.	ACTS		BUFFER	IMPACTS
Siation         Sindther Singther Size         Fellin Fight (ris) (	Sizutor   Sizuture   First				i	,	9	Mechanized	Eit In StA/	Eill In SW	Temp Fill	Existing	Relocated	Zone	Zone
Tith to   Tith	111+00   1050	Site	Station	Structure Size	Wetlands		Netlands		(Natural)	(Pond)	In SW	Impacted (m)	Channel (m)	1 (ha)	2 (ha)
100440LT   1	1350   1350	T	(From/10)	000	(ua)	(119)	1	(5)	0.005			99			
111+00	66+00 RT         1350         0.003         0.003         0.005         27         0.004         27         0.004         0.004         27         0.004<	1	00+7/	000											
100+40 LT   1350   10	111+00   1050	T													
BE+00 RT         1350         0.004         27         0.005         27         0.005         0.005         27         0.005         0.005         27         0.005         0.005         0.005         0.005         0.001 <td>  1350  </td> <td>T</td> <td></td>	1350   1350	T													
111+00	100-40 LT         1 @ 1200, 1 @ 1500         0.003         0.005         27         0.005         27         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.005         0.001	T	85+00 RT	1350					0.004			27			
100+40 LT         1 @ 1200, 1 @ 1500         0.003         0.005         27           111+00         1050         30         30         88           118+34 to 118+34 to 118+74         2.4x2.1 RCBC         0.013         98         88           118+74         2.4x2.1 RCBC         0.05         0.013         98         88           118+74         2.4x2.1 RCBC         0.05         0.01         0.013         98         88           118+74         2.4x2.1 RCBC         0.05         0.01         0.013         0.01         0.01           133+29         @10,1@20,1@10 BRIDGE         0.05         0.01         0.01         0.01         0.01         0.01         0.01           155+26         @32,1@32,1@16 BRIDGE         0.05         0.013         0.029         0.01         0.01         0.01         0.01	111+00         1050         0.003         0.005         27         0.005         0.001         0.	$\sqcap$													
100+40 LT         1 @ 1200, 1 @ 1500         0.003         0.005         0.005         27         0           111+00         1050         0.001	1111+00         1050         0.005         0.005         0.005         27         0           111+00         11050         1050         0.001 <td>十</td> <td></td>	十													
111+00         1050         1050         0.001         0.001         30         96	111+00         1050         0.001         0.001         30         6           118+34 to 118+34 to 118+74         1200         0.013         98         6         6           118+74         2.4x2.1 RCBC         6         6         6         6         6         6           118+74         2.4x2.1 RCBC         6         6         6         6         6         6         6         6         6           118+74         2.4x2.1 RCBC         6	1	100+4017					0.003	0.005			27			
111+00         1050         0.001         0.001         30         0.013         98         0.013         98         0.013         98         0.013         0.013         0.013         0.013         0.014	111+00         1050         0.001         0.001         98         6.013         98         6.013         98         6.013         6.013         6.013         6.013         6.013         6.013         6.013         6.013         6.013         6.013         6.013         6.013         6.013         6.013         6.014 <td>T</td> <td></td>	T													
111+00         1050         0.001         0.001         30         88         89         88         89         89         89         89         89         89         89         89	111+00         1050         0.001         0.001         98         6.013         98         6.013         98         6.013         6.013         6.013         6.013         6.013         6.013         6.013         6.013         6.014 <td>Г</td> <td></td>	Г													
111+00         1050         1050         0.013         0.013         98	111+00         1050         0.001         0.001         98	T										8			
118+34 to 1200         1200         0.013         98 <td>118+34 to 118+34 to 118</td> <td>1</td> <td>111+00</td> <td>1050</td> <td></td> <td></td> <td></td> <td></td> <td>0.001</td> <td></td> <td></td> <td>99</td> <td></td> <td></td> <td></td>	118+34 to 118	1	111+00	1050					0.001			99			
118+34 to 1190         1200         0.013         98         6.013         98         6.013         <	1184-34 to 1184-34 to 1184-34         1200         0.013         98         6.013         98         6.013         98         6.013         6.013         6.013         6.013         6.013         6.013         6.013         6.013         6.013         6.013         6.013         6.013         6.014 <td>T</td> <td></td>	T													
119+74         2.4x2.1 RCBC         0.05         0.01         0.001         0.001         15         4         <	115+74         2.4x2.1 RCBC         0.05         0.01         0.001         0.001         15         0.01         0.001         0.01	1	118+34 to	1200					0.013			86			
145+60         900         0.05         0.01         0.001         15           133+29         @10,1@20,1@10 BRIDGE         0.01         0.01         0.01         0.01           155+26         @32,1@32,1@16 BRIDGE         0.05         0         0.013         0.029         0         0.01         263	145+60         900         0.05         0.01         0.001         15           133+29         @10,1@20,1@10 BRIDGE         0.05         0.013         0.019         0.01         0.01           155+26         @32,1@32,1@16 BRIDGE         0.05         0         0.013         0.029         0         0.01         263         0	Т	118+74	2.4x2.1 RCBC											
145+60         900         0.05         0.01         0.001         15           133+29         @10,1@20,1@10 BRIDGE         0.01         0.01         0.01         0.01           155+26         @32,1@32,1@16 BRIDGE         0.05         0         0.013         0.029         0         0.01         263	145+60         900         0.05         0.01         0.001         15           133+29         @10,1@20,1@10 BRIDGE         0.05         0.013         0.019         0.01         0           155+26         @32,1@32,1@16 BRIDGE         0.05         0         0.013         0.029         0         0.01         263	П													
145+60         900         0.05         0.01         0.001         15	145+60         900         0.05         0.01         0.001         15														
145+60         900         0.05         0.01         0.001         15	145+60         900         0.05         0.01         0.001         0.001         15	T													
133+29         @10,1@20,1@10 BRIDGE         0.01         0.01         0.01           155+26         @32,1@32,1@16 BRIDGE         0         0         0.013         0.029         0         0.01         263         0	133+29         @10,1@20,1@10 BRIDGE         0.01         0.01         0.01         0.01         0           155+26         @32,1@32,1@16 BRIDGE         0.05         0         0.013         0.029         0         0.01         263         0         0	$\top$	09.04	COO	0.05			0.01	0.001			15			
133+29         @10,1@20,1@10 BRIDGE         0.01         0.01           155+26         @32,1@32,1@16 BRIDGE         0         0         0.013         0.029         0         0.01         263         0         0	133+29         @10,1@20,1@10 BRIDGE         0.01         0.01         0.01         0.01         0.013         0.029         0.01         263         0         0	T	142+00												
155+26 @32,1@32,1@16 BRIDGE 0.05 0 0.013 0.029 0 0.01 263 0 0	155+26 @32,1@32,1@16 BRIDGE 0.05 0 0.013 0.029 0 0.01 263 0 0	T	133730	@10 1@20 1@10 BRIDGE							0.01				
155+26 @32,1@32,1@16 BRIDGE 0.05 0 0.013 0.029 0 0.01 263 0 0	155+26 @32,1@32,1@16 BRIDGE 0.05 0 0.013 0.029 0 0.01 263 0 0	Τ	27.00												
0.05 0 0.013 0.029 0 0.01 263 0 0	0.05 0 0.01 0.029 0 0.01 263 0 0	T		@32,1@32,1@16 BRIDGE							0			,	9
		0	1		0.05	0	0	0.013	0.029	٥	0.01	202			

N.C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS

original site 8 has been combined into site 9

STANLY COUNTY

PROJEC 6.689002T (R-967CB) NC 24-27 FROM EAST OF ISLAND CREEK IN LOCUST TO EAST OF BIG BEAR CREEK NEAR SR 1253 (SAM ROAD) 10/3/02 SHEET 1% OF 2/

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## PROPERTY OWNER

### NAME AND ADDRESS

PARCEL NO.	OWNER'S NAME & ADDRESS
, (17)	David L. Mullis & wf. Nancy H. P.O. Box 447 Stanfield, N.C. 28163
(18)	David L. Mullis & wf. Nancy H. P.O. Box 447 Stanfield, N.C. 28163
(19)	Joyce B. & Franklin D. Hensley P.O. Box 274 Locust, N.C. 28097
30	Lillian B. Love 12640 N.C. 24-27 Highway Stanfield, N.C. 28163
(31)	Ronald T.& wf. Nancy L. Eudy 12611 N.C. 24-27 Highway Stanfield, N.C. 28163
32	M. D. Brattian (Heira) 17668 Branton Road Stanfield, N.C. 28163
38	Robert D. Thompson & wf. Bobbie K. 12785 N.C. 24-27 Highway Oakboro, N.C. 28129
39	Richard M. Hatley & wf. Beverly B. 12847-B N.C. 24-27 Highway Oakboro, N.C. 28129
40	Stacy D. Thompson 12785 N.C. 24-27 Highway Oakboro, N.C. 28129
<u>(41)</u>	Cathy C. Hill 12882 N.C. 24-27 Highway Oakboro, N.C. 28129
(42)	County of Stanly  Box 201 5, 2nd Street  Albemarle, N.C. 28002

### N. C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS

### STANLY COUNTY

PROJECT: 6.689002T (R-967CB)

NC 24-27 FROM EAST OF ISLAND

CREEK IN LOCUST TO EAST OF

BIG BEAR CREEK NEAR SR 1253

(SAM ROAD)

SHEET 19 OF 21 9-27-00

## PROPERTY OWNER

William Tage

### NAME AND ADDRESS

PARCEL NO.	OWNER'S NAME & ADDRESS
43)	Roy L. Barbee & wf. Virginia 16042 N.C. 24-27 Highway Oakboro, N.C. 28129
(44)	Dillon E. Whitley 14170 McLester Road Oakboro, N.C. 28129
64)	Velma R. Whitley 16343 N.C. 24-27 Highway Oakboro, N.C. 28129
66	James Edward Speight Jr. 204 East 1st. Street Oakboro, N.C. 28129
67	Donald W. Perry Sr. & wf. Patsy A. 20457 Running Creek Church Road Stanfield, N.C. 28163
68	Loudivine W. Eubanks 16418 N.C. 24-27 Highway Oakboro, N.C. 28129
84)	West Stanly High School 16686 NC 24-27 Highway Oakboro, NC 28129
85)	South Central Oil Co., Inc. 2121 West Main Street Albemarle, N.C. 28001
89	Ashley Heights Inc. P.O. Box 1289 Albemarle, N.C. 28002
96)	Grimmer-Whitley Development Co., Inc. P.O. Box 898 Matthews, N.C. 28106
	J. Clayton Burris 20258 N.C. 24-27 Highway Oakboro, N.C. 28129

N. C. DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS

STANLY COUNTY

PROJECT: 6.689002T (R-967CB) NC 24-27 FROM EAST OF ISLAND CREEK IN LOCUST TO EAST OF BIG BEAR CREEK NEAR SR 1253 (SAM ROAD) OF <u>21</u>

SHEET 20

### PROPERTY OWNER

### NAME AND ADDRESS

	OWNER'S NAME
PARCEL NO.	& ADDRESS
(12)	Craig Burris & Heirs 20337 N.C. 24-27 Highway Oakboro, N.C. 28129
(13)	Nevin M.& Patricia Huneycutt 16422 McLester Road Oakboro, N.C. 28129
(14)	Jimmy H. Poplin 20321 N.C. 24-27 Highway Oakboro, N.C. 28129
(47)	J.T. Barbee & wife Louise 20777 N.C. 24-27 Highway Oakboro, N.C. 28129
(48)	David F. Morrow 608 Channing Circle Concord, N.C. 28027
(49)	Jeffrey L. & Pamela B. Hinson 210 South Main Street Oakboro, N.C. 28129
(50)	Sally Ann Nettleton 678 Ives Row Cheshire, CT. 06410
(51)	William C. Burris 20836 N.C. 24-27 Highway Oakboro, N.C. 28129

N. C. DEPT.OF TRANSPORTATION DIVISION OF HIGHWAYS

STANLY COUNTY

PROJECT: 6.689002T (R-967CB) NC 24-27 FROM EAST OF ISLAND CREEK IN LOCUST TO EAST OF BIG BEAR CREEK NEAR SR 1253 (SAM ROAD) OF <u>21</u> SHEET 21